

discount pricing while CLECs make these arrangements because it removes any incentives to make them quickly. Of course, it will take the Company time to revise any applicable tariffs and, more importantly, to amend its relevant interconnection agreements.

V. CONCLUSION

Q76. Joint CLEC Witness Ball concludes (at 23) that the Commission should “avoid rushing to judgment in cases for which the appropriate data has not been collected” and that “CLECs will be irreparably harmed if they are denied access to loops or transport.”

A76. Mr. Ball’s conclusion is wrong on at least three levels.

1. As shown above, there is more than enough “appropriate data” to support a finding of non-impairment. The CLECs are simply trying to ignore it.

2. The FCC’s triggers are based on competitive transport facilities. As Staff Witness Dr. Liu recognizes, much of the relevant data about CLEC facilities resides with the CLECs that own those facilities. Thus, to the extent there is any other “appropriate data” that the CLECs want the Commission to consider, they should have presented it. The basic theory of the CLECs boils down to the argument that “you can’t find non-impairment, because we have withheld the necessary evidence.” The Commission should not reward such behavior.

3. If the Commission makes the finding of non-impairment that the evidence amply supports, CLECs will not be “denied access” to SBC Illinois dedicated transport.

1142 SBC Illinois still makes such transport available under access tariffs. The CLECs simply
1143 want to purchase that transport at subsidized TELRIC rates.

1144
1145

1146 **Q77. Please summarize the conclusions you have reached.**

1147 **A77.** As shown above and in my direct testimony, SBC Illinois has demonstrated non-
1148 impairment with respect to DS-3 and dark fiber transport along the 127 routes identified
1149 in Attachment RLS-1 hereto, and SBC Illinois has demonstrated non-impairment with
1150 respect to DS-1, DS-3 and dark fiber transport along the 285 routes identified in
1151 Attachment RLS-2.

1152

1153 **Q78. Does this conclude your rebuttal testimony?**

1154 **A78.** Yes.

	A CLLI	Z CLLI	Competing Transport Providers (with collocation at route end points)															
1	BNSVILBV	CHCGILCL	****	(B)														
2	BNSVILBV	CHCGILFR	****	(B)														
3	BNSVILBV	CHCGILD	****	(B)														
4	BNSVILBV	CHCGILLR	****	(B)														
5	BNSVILBV	CHCGILNE	****	(B)														
6	BNSVILBV	CHCGILWB	****	(B)														
7	BNSVILBV	DSPILXL	****	(B)														
8	BNSVILBV	DWGVLDG	****	(B)														
9	BNSVILBV	HNDLILHI	****	(B)														
10	BNSVILBV	OKBRIOA	****	(B)														
11	BNSVILBV	PRRGILXL	****	(B)														
12	CHCGILCL	CHCGILFR	****	(A)													****	(DF)
13	CHCGILCL	CHCGILD	****	(A)						****	(C)						****	(DF)
14	CHCGILCL	CHCGILIR	****	(C)														
15	CHCGILCL	CHCGILLR	****							****	(DF)							
16	CHCGILCL	CHCGILLW	****	(C)														
17	CHCGILCL	CHCGILMO	****															
18	CHCGILCL	CHCGILNE	****	(A)						****	(DF)							
19	CHCGILCL	CHCGILSU	RON	****	(C)								****	(DF)				
20	CHCGILCL	CHCGILWB	RON	****	(A)								****	(C)			****	(DF)
21	CHCGILCL	DSPILXL	****							****	(DF)							
22	CHCGILCL	DWGVLDG	****							****	(C)							
23	CHCGILCL	EGVGILEG	****							****	(D)							
24	CHCGILCL	HNDLILHI	****							****	(DF)							
25	CHCGILCL	NBRKILNT	****															
26	CHCGILCL	OKBRIOA	****															
27	CHCGILCL	PRRGILXL	****	(C)						****			****	(DF)				
28	CHCGILCL	SCBGILCO	****							****	(D)			****	(DF)			
29	CHCGILFR	CHCGILD	****							***	(A)		****	(C)			****	(C)
30	CHCGILFR	CHCGILLR	****							****				****	(DF)			
31	CHCGILFR	CHCGILLW	****							****	(C)							
32	CHCGILFR	CHCGILMO	****															
33	CHCGILFR	CHCGILNE	****	(A)						****			****	(DF)				
34	CHCGILFR	CHCGILSU	****							****	(C)				****	(DF)		
35	CHCGILFR	CHCGILWB	****							****	(A)		****	(C)			****	(C)
36	CHCGILFR	DSPILXL	****							****			****	(DF)				
37	CHCGILFR	DWGVLDG	****							****								
38	CHCGILFR	EGVGILEG	****							****	(G)			****	(DF)			
39	CHCGILFR	HNDLILHI	****	(C)						****	(D)			****	(DF)			

[illegible]

85	CHCGILSU	DSPLILXL	****	(DF)					
86	CHCGILSU	DWGVILDG	****						
87	CHCGILSU	EGVGILEG	****	(DF)	**** (DF)				
88	CHCGILSU	HNDLILHI	****	(DF)					
89	CHCGILSU	OKBRIOA	****						
90	CHCGILSU	PRRGILXL	****		**** (DF)				
91	CHCGILSU	SCBGILCO	****	(DF)					
92	CHCGILWB	DSPLILXL	****		**** (DF)				
93	CHCGILWB	DWGVILDG	****	(C)					
94	CHCGILWB	EGVGILEG	**** (C)		**** (DF)				
95	CHCGILWB	HNDLILHI	**** (C)		**** (DF)				
96	CHCGILWB	NBRKILNT	****						
97	CHCGILWB	OKBRIOA	****						
98	CHCGILWB	PRRGILXL	**** (C)	**** (C)	**** (C)	**** (DF)			
99	CHCGILWB	SCBGILCO	**** (C)		**** (DF)				
100	DSPLILXL	DWGVILDG	****						
101	DSPLILXL	EGVGILEG	****	(DF)					
102	DSPLILXL	HNDLILHI	****	(DF)					
103	DSPLILXL	NBRKILNT	****						
104	DSPLILXL	OKBRIOA	****						
105	DSPLILXL	PRRGILXL	****	(DF)					
106	DSPLILXL	SCBGILCO	****	(DF)					
107	DWGVILDG	EGVGILEG	****						
108	DWGVILDG	HNDLILHI	****						
109	DWGVILDG	NBRKILNT	****						
110	DWGVILDG	OKBRIOA	****						
111	DWGVILDG	PRRGILXL	****						
112	DWGVILDG	SCBGILCO	****						
113	EGVGILEG	HNDLILHI	****	(DF)					
114	EGVGILEG	OKBRIOA	****						
115	EGVGILEG	PRRGILXL	****	(D)	**** (DF)				
116	EGVGILEG	SCBGILCO	****	(DF)					
117	HNDLILHI	OKBRIOA	****						
118	HNDLILHI	PRRGILXL	**** (C)		**** (DF)				
119	HNDLILHI	SCBGILCO	**** (C)		**** (DF)				
120	LVPKILRN	RCFRILRT	**** (C)						
121	NBRKILNB	NBRKILNT	**** (C)						
122	NBRKILNT	OKBRIOA	****						
123	NBRKILNT	SCBGILCO	****						
124	OKBRIOA	PRRGILXL	**** (C)	**** (C)					
125	OKBRIOA	SCBGILCO	**** (D)						
126	PRRGILXL	SCBGILCO	**** (C)	**** (D)	**** (DF)				
127	RCFRILRE	RCFRILRT	**** (C)						

LEGEND



(A)
(B)
(C)
(D)
(DF)

Carrier confirms "on net" collocation at both ends of route, and currently provides or offers DS-1 and DS-3
Carrier confirms "on net" collocation at both ends of route, and confirms that capacity is more than sufficient to carry DS-3

Carrier obtains facilities from wholesale provider, but did not disclose provider's name.
Carrier lists BNSVILBV as "on net" but does not state capacity.
Carrier does not confirm collocation at one or both ends of route.
Carrier added to route based on analysis of discovery responses.
Carrier added to route based on analysis of discovery responses; carrier offers dark fiber.

ILLINOIS TRANSPORT ROUTES MEETING THE WHOLESALE TRIGGER

	A CLLI	Z CLLI	Competing Transport Providers (with collocation at route end points)									
1	ARLHILAH	CHCGILCL	****									
2	ARLHILAH	CHCGILFR	****									
3	ARLHILAH	CHCGILID	****									
4	ARLHILAH	CHCGILLR	****									
5	ARLHILAH	CHCGILSU	****									
6	ARLHILAH	DWGVILDG	****									
7	ARLHILAH	EGVGILEG	****									
8	ARLHILAH	PRRGILXL	****									
9	BLVLLAD	BNVULBN	**** (C)									
10	BLVLLAD	CHCGILCL	**** (C)									
11	BLVLLAD	CHCGILFR	**** (C)									
12	BLVLLAD	CHCGILID	**** (C)									
13	BLVLLAD	CHCGILLR	**** (C)									
14	BLWDILBW	HNDLILHI	****									
15	BLWDILBW	LBRDILLM	****									
16	BLWDILBW	NPVLILNA	****									
17	BLWDILBW	OKBRILOA	****									
18	BNSVILBV	CHCGILCL	****		**** (B)							
19	BNSVILBV	CHCGILFR	****		**** (B)							
20	BNSVILBV	CHCGILID	****		**** (B)							
21	BNSVILBV	CHCGILLR	****		**** (B)							
22	BNSVILBV	CHCGILMO	****		**** (B)							
23	BNSVILBV	CHCGILNE	****		**** (B)							
24	BNSVILBV	CHCGILSU	****									
25	BNSVILBV	CHCGILWB	****		**** (B)							
26	BNSVILBV	OSPLILXL	****		**** (B)							
27	BNSVILBV	DWGVILDG	****		**** (B)							
28	BNSVILBV	EGVGILEG	****									
29	BNSVILBV	HNDLILHI	**** (B)									
30	BNSVILBV	LBRDILLM	**** (B)									
31	BNSVILBV	NPVLILNA	**** (B)									
32	BNSVILBV	OKBRILOA	****		**** (B)							
33	BNSVILBV	PRRGILXL	****		**** (B)							
34	BNSVILBV	SCBGILCO	****			**** (B)						
35	CHCGILCL	BNSVILBV	****		**** (B)							
36	CHCGILCL	CHCGILED	****									
37	CHCGILCL	CHCGILFR	****	**** (A)						**** (DF)		
38	CHCGILCL	CHCGILHB	****									
39	CHCGILCL	CHCGILID	****		**** (A)		**** (C)				**** (DF)	
40	CHCGILCL	CHCGILR	****		**** (C)							
41	CHCGILCL	CHCGILLR	****					**** (DF)				

128	CHCGILIR	CHCGILWB	****	****									
129	CHCGILIR	SKOKILSK	****	****									
130	CHCGILLR	CHCGILLW	****	****	**** (C)								
131	CHCGILLR	CHCGILMO	****	****									
132	CHCGILLR	CHCGILNE	**** (C)	****	**** (DF)								
133	CHCGILLR	CHCGILSU	****	****	****	**** (DF)							
134	CHCGILLR	CHCGILWB	****	****	**** (C)	****	****	**** (DF)					
135	CHCGILLR	DRFDILDF	****	****									
136	CHCGILLR	DSPLILXL	****	****	**** (DF)								
137	CHCGILLR	DWGVILDG	****	****	**** (DF)								
138	CHCGILLR	EGVGILEG	****	****	**** (DF)								
139	CHCGILLR	HFESILWL	****	****	**** (DF)								
140	CHCGILLR	HNDLIJHI	****	****	**** (DF)								
141	CHCGILLR	LBRDILLM	****	****									
142	CHCGILLR	NBRKILNB	****	****									
143	CHCGILLR	NBRKILNT	****	****									
144	CHCGILLR	NPVLILNA	****	****	**** (DF)								
145	CHCGILLR	OKBRILOA	****	****									
146	CHCGILLR	PRRGILXL	**** (C)	****	**** (DF)								
147	CHCGILLR	SCBGILCO	****	****	**** (DF)								
148	CHCGILLR	SKOKILSK	****	****	**** (D)								
149	CHCGILLR	WLNGLILWG	****	****									
150	CHCGILLW	CHCGILMO	****	****									
151	CHCGILLW	CHCGILSU	****	****	**** (C)								
152	CHCGILLW	CHCGILWB	****	****	**** (C)								
153	CHCGILMO	CHCGILNE	****	****									
154	CHCGILMO	CHCGILSU	****	****									
155	CHCGILMO	CHCGILWB	****	****									
156	CHCGILMO	DSPLILXL	****	****									
157	CHCGILMO	DWGVILDG	****	****									
158	CHCGILMO	EGVGILEG	****	****									
159	CHCGILMO	HNDLIJHI	****	****									
160	CHCGILMO	OKBRILOA	****	****									
161	CHCGILMO	PRRGILXL	****	****									
162	CHCGILMO	SCBGILCO	****	****									
163	CHCGILNE	CHCGILSU	****	****	**** (DF)								
164	CHCGILNE	CHCGILWB	**** (A)	****	**** (DF)								
165	CHCGILNE	DRFDILDF	****	****									
166	CHCGILNE	DSPLILXL	****	****	**** (DF)								
167	CHCGILNE	DWGVILDG	****	****	**** (DF)								
168	CHCGILNE	EGVGILEG	****	****	**** (DF)								
169	CHCGILNE	HFESILWL	****	****	**** (DF)								
170	CHCGILNE	HNDLIJHI	****	****	**** (DF)								

[illegible]

This micrograph shows the interface between the epoxy resin and the carbon fiber fabric. The carbon fibers are visible as dark, elongated structures, and the epoxy resin is the lighter, more granular material surrounding them.

(A) Carrier obtains facilities from wholesale provider, but did not disclose provider's name.
(B) Carrier lists BNSVILBV as "on net" but does not state capacity.
(C) Carrier does not confirm collocation at one or both ends of route.
(D) Carrier added to route based on analysis of discovery responses.
(DF) Carrier added to route based on analysis of discovery responses; carrier offers dark fiber.



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As a carrier's carrier, UUNET wants to be your partner in the telecom world of tomorrow. An enthusiast dedicated "Carrier team" focuses exclusively on your needs in order to design tailored solutions and a to your requests. In the fast moving arena of the networks, UUNET offers you commitment and a lead infrastructure to support you in designing the answers to the communication needs of your customers be at your side, our job is to provide the right solution for your market through a range of consistent an services, continuously in development.

Our Carrier portfolio extends from interconnection services giving you access to the world-wide UUNE tailored programmes that allow you the distribution of the wide range of our value-added services. Ask about UUNET Data, Voice and Internet services, for example:

- ◀ Voice and Data Interconnect
- ◀ High quality bandwidth and advanced data and Internet solutions to help you building your ne Data Link, UUNET's DWDM service, ATM, Frame Relay, FRASI, Global Internet Transit are s carrier services in this area.
- ◀ Advanced Data Resell, Global Inbound Service

All those offers rely on a state-of-the-art fibre optic network, which spans the world. The Ulysses Pan network extends to almost 14,600 km, while the 12,600 km Gemini transatlantic cable system links Eu US. Our national network strategy has seen the completion of networks in Belgium, France, Germany connecting over 50 major cities. And UUNET brings you one of the world's most reliable Internet back with over 2,500 points of presence.

Whatever services you ask us to provide, you can relax in the knowledge that you have chosen a stro communication partner who takes the time to understand your business and provides you with the bes services and support tailored to your exacts needs....and help you make the most of your opportunities marketplace.

For an overview of what we can offer you as a Carrier, please view our **Carrier Solutions Brochure b here**.

For further information on our Data products portfolio, please **click here**.

For further information on our Internet products, please **click here**.

For further information on our Voice products portfolio, please **click here**.

CPE Ship Direct Programme

UUNET Wholesale has recently launched its first CPE programme - Cisco Ship Direct. Cisco CPE Sh means for you to order Cisco equipment through UUNET, enjoying significant discounts. You will also maintenance agreement for hardware and software maintenance.

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- ◀ Extremely good discounts

- ⚡ Streamlined processes by ordering through UUNET
- ⚡ Billing options in several different currencies
- ⚡ Different Maintenance Options based on level of service required

Please contact your **UUNET Account Manager** for more information.

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Be ready for the GPRS challenge! UUNET - your partner in the world of Data roaming.

As you evolve, as a Mobile Operator, towards the world of data communications, you need a reliable partner to support the future growth of your business in the era of 2.5 and 3d generation services. As a prolongation of our business, Mobile Data is a key priority for UUNET and UUNET **GPRS Roaming E** service meets the flexibility and global reach that is essential for your business.

Based on UUNET top quality infrastructure and experience in providing flexible solutions tailored to your requirements, UUNET GRX offers you:

- ⚡ *Flexible solutions to implement your GPRS roaming network*
It is your network...a dedicated team is available for you to put in place the technical solutions your requirements
- ⚡ *High network performance*
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- ⚡ *Global coverage*
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We'll help you to find the optimum solution for your company, and for your customers, to enhance your productivity and your profitability.

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A wide range of high performance Voice Services for the European market is available from UUNET International Wholesale. Your customers can benefit from instant connection to our local-to-global telephony network infrastructure. And importantly, our comprehensive product range is available at highly competitive rates with world-class 24x7 support for your customers.

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Are you...

- a Carrier?
- a Switchless Reseller?
- an Aggregator?
- an ISP?

ICC Docket No. 03-0596
1.1 Sparks Rebuttal Transport

Attachment RLS-4

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XO™ is committed to serving the needs of emerging and established carriers and service providers such as:

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- IntereXchange Carrier (IXC)
- Incumbent Local Exchange Carrier (ILEC)
- Building Local Exchange Carrier (BLEC)
- Cable TV Provider
- Wireless Service Provider
- VOIP Service Provider
- Utility Telecom Division

This commitment, combined with our financial strength and vast network, means you can rely on XO to provide the communications solutions you need to stay competitive today... and further down the road.

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XO understands that carriers and service providers need more than just bandwidth to satisfy their customers. So along with the generous bandwidth capabilities we offer, our products and services - coupled with dedicated customer service and technical support - make it possible for you to deliver what your customers need.

With assets that directly compete with those of the largest telecommunications service providers, XO serves carriers and service providers of various sizes. So no matter what your line of business, or product or service requirements, XO can handle a piece of your business... or all of it. We'll design a solution specifically for you, evaluating and delivering exactly what you need at a price you can afford.

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Product Portfolio

XO Product Solution	Product Advantage
Carrier Long Distance Termination	With Carrier Long Distance Termination, you can complete interstate calls in all 50 states and intrastate calls in the 48 continental states (excludes AK and HI) with only one interconnection.
High-Speed Dedicated Internet Access	High-Speed Dedicated Internet Access provides unlimited high capacity Internet access via non-shared, non-fractional lines.
Inbound PRI (Primary Rate Interface)	Inbound PRI is a 100% digital circuit designed for organizations that provide dial Internet access to end-users and employees.
Wholesale Dial-Up	Wholesale Dial-Up gives you maximum flexibility in offering highly reliable Internet access while maintaining control of your own subscriber accounts.
Carrier Private Line	Carrier Private Line typically consists of non-switched communications circuits and the required equipment to connect two or more locations. Long-haul and local circuits are available in a variety of configurations.
Collocation	Collocation provides secure, controlled carrier-class space and network access for carriers, such as CLECs (Competitive Local Exchange Carriers), IXC's (InterExchange Carriers) and ISPs (Internet Service Providers).
Wavelength Services	Dedicated connections between sites using Wave Division Multiplexing. Available at OC-12, OC-48 and OC-192 capacities
SONET Services	Allows the transmission of large voice, image and data files by maximizing the high-speed capacity of fiber-optic cables

See Also

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Wavelength Services

MultiTransport Networking Service

XO Network

Overview

XO™ SONET lets you connect multiple offices in a metropolitan area to create a dedicated, high-bandwidth fiber-optic network that can handle even the most demanding applications. SONET maximizes the high-speed capacity of fiber-optic cables, letting you transmit large amounts of voice, images and data along with providing built-in redundancy to ensure the reliability of these critical applications. XO SONET Services are:

- Competitively priced, making them ideal for applications where speed and survivability are critical
- Easy to add and drop without having to multiplex or demultiplex the entire signal so that you have more flexibility and require less special equipment
- Based on worldwide open standards, meaning you can link equipment from different vendors to meet your transport needs both now and in the future.

All XO SONET Services are installed, managed and monitored by XO and are backed by rigorous Service Level Agreements (SLAs).

Features

- Point-to-point, point-to-multipoint or multipoint configurations
- Capacity at OC-3, OC-12 or OC-48
- Range of speeds (from DS-1 to OC-48)
- 24x7 performance monitoring and alarm surveillance
- 99.999% availability
- Bit error rate of 10⁻⁹ for optical circuits
- Restoration interval of less than 50 milliseconds
- Standard ADM optical connections
- Term pricing and revenue discounts
- Optional reserved port for future growth

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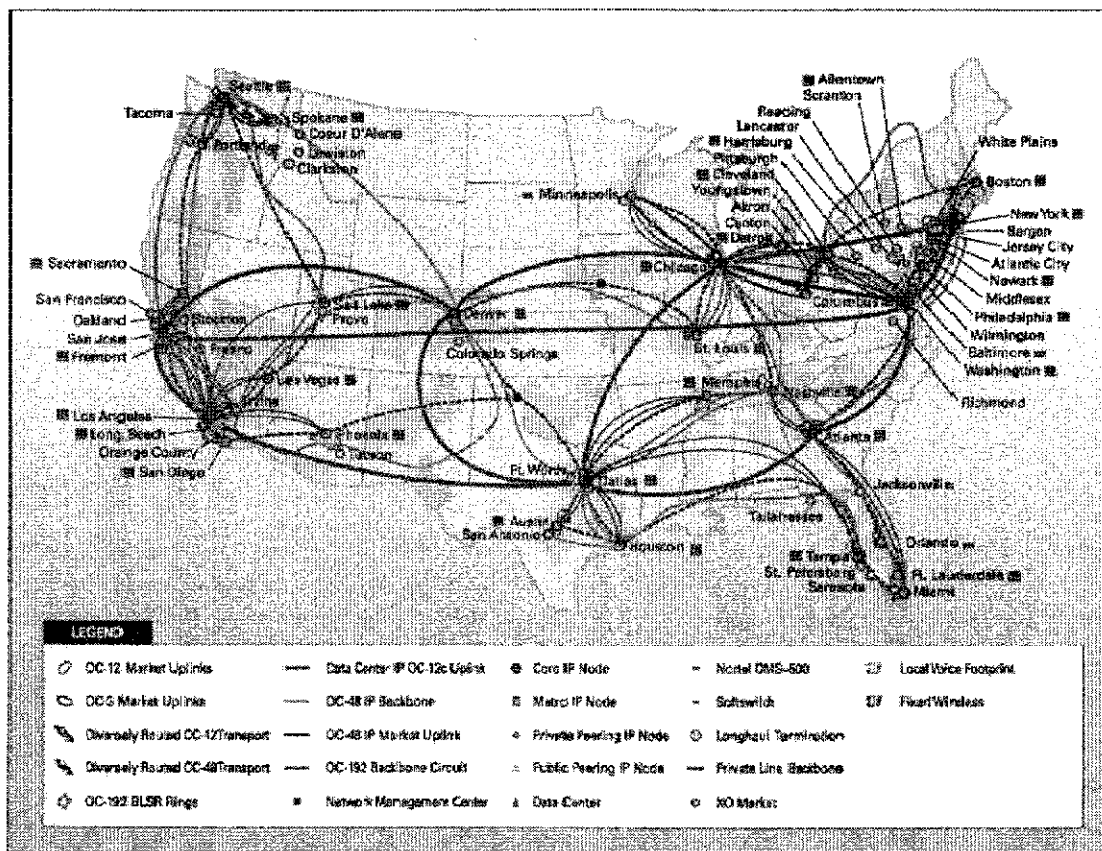
See Also

- [Learn More About the XO™ OC-192 Network](#)
- [XO™ Security Solutions](#)

Complete Network Assets - Normal View

SPC Illinois Ex. 1.1 (Sparks Rebuttal Transport)
 Docket No. 03-0596
 Attachment RLS-5
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Complete Network Assets
 Network Maps Home: Normal View | Large View





AT&T Wholesale Home

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AT&T Business Home



AT&T WHOLESALE SERVICES

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IP SERVICES

VOICE SERVICES

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We understand that the current changes in the telecommunications industry worldwide present real concerns for you as a service provider. AT&T Wholesale Services offers the necessary depth, breadth and experience in global wholesale communications to reduce your concerns about service continuity and help you grow your business.

AT&T delivers the scale of a world-class network, the scope to design customer-defined solutions and the skill of globally deployed professionals. Our customer support team provides an integrated customer experience and leverages industry knowledge to ensure the viability of your business. AT&T combines the strengths of both traditional products and IP for the wholesale market. We offer a comprehensive portfolio of wholesale Voice, Data, and IP services. Now is the time to leverage AT&T's world-class quality services for your customers' global telecommunications needs. Download the [AT&T Wholesale Services Overview](#).

For more information on AT&T Service Provider Services, call your AT&T Account Representative or [contact us online](#).

Did you know...

AT&T's global network connects over 230 countries and territories, carries over 40 billion minutes of wholesale voice traffic annually and includes more than 400 correspondents and suppliers worldwide.

AT&T
wholesale
services



AT&T Data Services for Service Providers

With experience that spans more than a century, AT&T understands the unique business needs of service providers. We work with carriers, cable companies, mobile operators and ISPs to meet the specific requirements of your customers on a global basis, while maintaining a strong local feel. We have the infrastructure and resources, plus a global presence in 60 countries, to help you maximize reach and efficiency. Operating in a rapidly evolving marketplace where the pressures of global competition dictate the need for diverse global connectivity, AT&T Data Services offer a flexible portfolio of local, national and international data products and services — always with high levels of technical support that meet your needs as your network reacts to industry forces.

Your Challenge is Our Business

Our U.S. domestic and international sales teams are segmented by geography and specialty to provide you with the data services product and coverage information that supports your needs. We are accessible, knowledgeable and speak your language. We are continually evolving our network and expanding our breadth of services to cover everything from Private Line to High Speed Packet Services (Frame Relay and ATM), with local, national, and global reach. We also offer powerful Web tools so you have available comprehensive network management information at the point-and-click of a mouse. We are focused on building a network to handle complex and mission critical applications, emphasizing features that enhance key competencies and responding to fast-changing needs. In fact, through our commitment to solving data networking challenges, we design networks that fit the needs of you and your customers. Selecting from our data networking portfolio, we can help you customize and create, giving you and your customers the economies of scale that only a proven global service provider can.

Powering Up with AT&T Strengths

When you choose AT&T, you know you also have the power of the AT&T network behind you. On an average day, the AT&T network handles more than 2500 terabytes of data. Our frame relay network consistently achieves a 99.99% performance rating. We optimize a combination of bilateral and alternate routes to more than 230 countries and territories, with over 400 correspondents or suppliers. In the U.S., we

**Want a truly global
data network provider?
Connect with AT&T.**

More than ever, now is the time to leverage AT&T's world-class quality services for your customers' data networking needs. We have the infrastructure and resources, plus over 100 years of industry experience, to give your customers security and availability. AT&T Wholesale data networking products offer fast and reliable service - anytime, anywhere - at competitive prices for our wholesale customers.

have more than 61,000 route-miles of fiber (enough to circle the globe twice). AT&T's depth of services has been recognized in the industry. "AT&T remains the player to beat in the business communications space, enjoying a position as the biggest seller to large enterprises and the carrier with the fullest portfolio of data services available." -Yankee Group, July 2002.

We were the first to deliver Frame Relay-to-ATM Service Interworking. We not only introduced the award-winning IP-Enabled ATM, but our IP-Enabled Frame Relay Service was the first MPLS-based product in the U.S.

An Overview of AT&T Data Services

AT&T has been here to strengthen data networks for as long as any business in America has been networking. From Private Line to Frame Relay to ATM Services, from local to global to secure Internet Access, we've developed a rich portfolio that can bolster your networks' footprint and capabilities. Whether you are providing a simple T1 local connection, OC192 (10 Gbps) wavelength service or international FR/ATM, AT&T facilities can enable you to build flexibility, high reliability, performance, and scalability into your service offerings. As you review our services, remember that we continue to expand our offerings to include new technologies and provide more services to meet your ever-changing needs.

AT&T Private Line Services

From Single Channel to OC192 Services for local or long haul communications, AT&T Private Line Services offer an array of choices, all with high availability and performance, plus the security only Private Line can assure. In the event of a service outage, we stand behind our Single Channel and Fractional T1 services with a Credit Allowance, while our T1 and T45 services are protected by a Service Assurance Warranty (SAW).

Bandwidth Options:

- Single Channel
- Fractional T1 and T1
- Fractional T45 and T45
- OC48 to OC192 Optical Wavelength Services
- Ethernet Services available at: 50Mbps, 150Mbps, 300Mbps, 1Gbps.

AT&T Private Line Services handle your demanding communications needs with AT&T's assurance of availability, reliability and performance.

**Think innovation is out
of fashion in traditional
carrier services? Don't
tell that to AT&T.**

Options for AT&T Private Line Services cover access, diversity, reliability, network management and disaster recovery. The following is a sampling:

- Total Service includes the local access channel and delivers total end-to-end service through AT&T. With this option, AT&T handles total provisioning, maintenance, billing and support of dedicated access circuits as well as the Interoffice channels.
- AT&T Bandwidth Manager (ABM) provides a full spectrum of network management, bandwidth-on-demand and disaster recovery capabilities.
- Enhanced Reliability Option offers the strongest SAW in the industry, guaranteeing 99.99% service availability.
- Multiplexing allows you to combine network circuits over a common high-speed backbone to improve economic performance and optimize efficiency and utilization of the service.

AT&T High-Speed Packet Services

For high-speed transport, high-level security and a network that can quickly scale to meet growth, AT&T offers flexibility around its industry leading packet services.

- AT&T Frame Relay Service is based on frame relay technology and is provided over AT&T's ATM switching backbone for high-speed reliability, low congestion and consistent performance. Its rich feature set includes industry-leading SLAs, AT&T ReliaBURST® for traffic bursting beyond your committed information rate (CIR), virtually instantaneous rerouting around failures and Priority Egress Queuing (PEQ) to ensure that the most important communications transverse the network first.
- AT&T Frame Relay Plus provides you with a monitoring and network management window into your customers' networks, down to the application level.
- AT&T IP-Enabled Frame Relay Service maintains the privacy of the frame network while establishing any-to-any access to the Internet, intranets and extranets using MPLS technology.
- AT&T Frame Relay to ATM Service Interworking lets your customers transmit data between AT&T Frame Relay and ATM ports. This service is also useful for customers that wish to migrate from Frame relay to ATM at their own pace with no change in CPE.
- AT&T ATM Service can carry the most bandwidth-intensive applications across the network with ease, including videoconferencing, medical imaging, high-quality video for media applications and running voice across the data network at speeds up to 155 Mbps.
- AT&T IP-Enabled ATM assigns any-to-any access to the Internet, intranets and extranets while preserving the privacy of the ATM network.

Reliability Options for AT&T Frame Relay and ATM Service:

- Disaster Recovery Options build in protection against major failures with backup PVCs, access protection, direct links to disaster recovery centers and more.
- Diversity Options put in place redundancy connections such as POP diversity and switch diversity to ensure a continuous flow of network traffic.

AT&T Local Services (Private Line, Frame Relay, ATM)

- AT&T Local Private Line Service is a cost-effective solution for connecting multiple metro sites. - The available speeds are: DS0, DS1, DS3; OC3c, OC12c, OC48c, OC192c; STM-1, STM-4, and STM-16. Also Metropolitan Ethernet is available at speeds of 50Mbps, 150Mbps, 300Mbps, and 1Gbps.
- AT&T Local Frame Relay Service connects multiple sites within a metropolitan area requiring bandwidth up to T45 connectivity.
- AT&T Local ATM Service provides that same local connectivity among multiple metro sites, with increased speeds up to T45 and OC3 allowing for multimedia capabilities.

AT&T Access Services

AT&T offers several Integrated Access Offers:

- AT&T ACCU-Ring® Network Access Service is a fully managed high-speed service which runs on a SONET infrastructure and provides two-way digital transmission for all local channel connections. These include AT&T Private Line, switched and enhanced services, Local Exchange Carrier and Interexchange Carrier traffic, as well as business premises-to-premises communications.
- Dedicated Entrance Facilities (DEF) provide a high capacity, dedicated communication path between a customer's premises and the AT&T Local Network Services (LNS) node, or between a customer's premises and a designated premises (two-node direct SONET interface configuration). It is offered in OC-3, OC-12 and OC-48 bandwidths at SONET rates. DEF also offers STM-1 and STM-4 handoffs. Since this service includes a dedicated, high capacity, customized network, it will be deployed where SONET facilities are available. If SONET facilities are not available, LNS Special Construction charges may apply.
- AT&T Ultraviolet® Network, AT&T Ultraviolet® Wavelength and AT&T Ultraviolet® Managed OptErng Service™ are fully managed, custom solutions for interconnecting your customer's data centers and business sites in a metropolitan area network (MAN) environment with the ability to extend the MAN into the WAN with the AT&T Ultraviolet® Managed OptErng™ Service. The network design and engineering provides the highest possible levels of availability, reliability and security, assuring your customer fail-safe business continuity with continuous operations and access to their information.

AT&T Dark Fiber Offer

Dark, or unlit, fiber is purchased as a custom offering from AT&T. The dark fiber, consisting of non-zero dispersion-shifted fiber, is designed to support technologies as they evolve. The fiber terminates into the CPE that provides the necessary transmission speed – and the customer provides the required Optical Amplifier equipment.

AT&T Dedicated (Leased) Transit

AT&T's Dedicated Transit (for voice, video, data or IP) allows International Facility-Based Carriers to traverse the US in order to connect sub sea cables, satellite earth stations or border crossings that touch the US. For example, if carrier A (in Europe) and B (in Asia/Pacific) exchange traffic via Japan - US and IAI 14, they would need a segment in the US to connect those two cables. Dedicated Transit allows them to send traffic from Europe to Asia/Pacific in a seamless fashion. (This is just one illustration and not the only example.)

An AT&T Dedicated Transit facility is service agnostic. International Facility-Based Carriers can transmit voice, video, data or IP. AT&T's world class US domestic network provides a seamless extension of an administration's own network which allows for the initial establishment of a direct global link to administrations in other countries. Dedicated Transit is available in speeds from 64 Kbps through STM-16. AT&T's self-healing, redundant network enables restorations to occur in milliseconds. Network maintenance is provided 24 x 7. Dedicated Transit offers three distinct paths across the US for East/West Coast connectivity.

AT&T Sub Sea Cable

AT&T sells spare capacity in cables in which it has ownership to qualified International Facility-Based Carriers. Sub Sea Cable terms are usually an IRU (Indefeasible Right to Use) or less frequently leased capacity for a minimum of one year. Speeds offered are from 64 Kbps to STM-16. Sub Sea Cable service is non-regulated and non-tariffed, but subject to terms and conditions of the cables' C&MAs (Construction and Maintenance Agreements). AT&T also services and maintains cables in which it has an ownership interest. These facilities boast best in class maintenance and design. AT&T Sub Sea Cable Service can be bundled with AT&T Dedicated Transit and Backhaul Services.

For more information, contact your AT&T
Representative or visit www.att.com/wholesale



AT&T
optical
private line
solutions

AT&T optical private line solutions
Dedicated to Carrying
Tomorrow's Applications



AT&T Optical Private Line Solutions

"...demand is out there for IP and bandwidth, so we are on a 'build and fill' strategy."

- Mike Armstrong,
CEO, AT&T

How does your business grow?
With better information, of course.
Which means you need to connect LANs
to WANs for stronger communications
with wider audiences. Economically
converge voice and data traffic over
robust technologies such as asynchronous
transfer mode (ATM). Share heavy-duty
CAD/CAM applications that reduce
time-to-market. Extend mainframe
channels and make supercomputer file
transfers for mission-critical activities such
as data backup. Utilize full-motion video
for videoconferencing and visual imaging.
More than ever, businesses like yours are
looking toward emerging broadband
applications, with their extraordinary
flexibility to grow and enhance networks
for years to come. Broadband has the
speed and bandwidth to smoothly
perform all of the above – and more.
Where do you go for world-class
communications solutions that solve
real-life business issues? Where you've
always gone. AT&T.

AT&T SONET Private Line Services give
you the highest-speed, best-of-breed
broadband communications capabilities,
ready to deploy when and where you
need them.

AT&T Optical Solutions

SONET, or Synchronous Optical
Network, is a standards-based, fiber optics
transmission method that AT&T has
adopted and built into our highest-
capacity domestic digital service offering.
AT&T's adaptation provides a new level
of network intelligence that carries your
data, known as the "payload", as well as
control and monitoring information,
called "overhead", in one synchronous
data stream.

AT&T's optical solutions support the
fastest network speeds available today,
from 155 Mbps (OC3) to 9953 Gbps
(OC192) – 10 billion data bits per
second. We're currently expanding our
optical infrastructure with 16,500 miles
of our new "next-generation" fiber in
conjunction with our new two-tier

architecture – positioning our network to support OC192 services four times faster than the OC192 of today's network.

This two-tier architecture is comprised of an ultra-capacity "express" overlay network with state-of-the-art SONET and optical networking technologies. It yields a 50% reduction in regeneration and multiplexing points, which in turn reduces points of failure and equipment costs.

In addition to high-speed transmission overall, AT&T utilizes Dense Wave Division Multiplexing (DWDM). This sophisticated technology lets us use different wavelengths of light to dramatically expand the bandwidth capacity of a single optical fiber – allowing each fiber to carry much more data, much more efficiently than ever before. In 2000, AT&T deployed DWDM systems with wavelengths of 64 to 80, and with 1,200 systems in place, AT&T offers the largest DWDM deployment in the world.

Plus, AT&T's optical solutions have extensive reach to your areas of network needs with more than 50,000 route miles, another 15,500 with the new next-generation fiber deployment, more than 115 physical rings (and still adding) and 240+ wavelengths ensure extensive coverage and higher reliability by limiting ring size.

Reliability Right Down to the Ring

AT&T has always known that reliability of service is just as important to you as high speed. AT&T's restoration features on the network enable us to route around a failure in milliseconds, so fast that it's virtually unnoticeable to you and your users.

In addition, AT&T's optical solutions interface at your site and the AT&T network over two pairs of optical fiber. One pair acts as the service circuit – the service path – and the other is available as a standby protection circuit – the protection path. These redundant connections allow switching between the service path and protection path in the event of a circuit failure.

As an option, you can even benefit from diverse routing, building in extra protection should a failure occur.

Adding to the assurance of reliability, AT&T monitors the AT&T Optical Network 24 hours a day. In addition, the AT&T SONET Maintenance Center is available on a 24x7 basis for service issues.

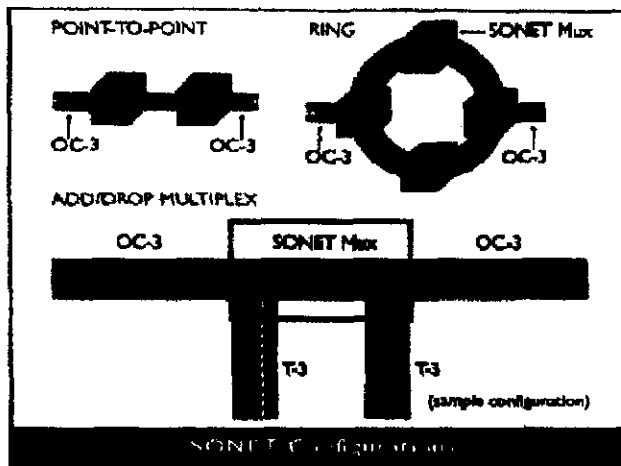
Service Options for Expanding Revenue

AT&T's optical solutions are available in two configurations – an Interoffice Channel (IOC) circuit for a point to point, dedicated connection between two AT&T Central Offices (COs), or a Local Channel (LC) circuit. Each configuration comes with multiple access options that cover virtually every need your company might experience.

For extra value, the Multiplexing Office Function, an optional component, adds even greater flexibility.

Currently available for SONET OC3 and OC12 services, this AT&T Multiplexing option allows for channelization and an economical means to separate and transmit lower-capacity DS1, DS3 and/or OC3 signals. Which means you can more easily and efficiently segment your communications without sacrificing quality or quantity.

AT&T Optical Private Line Solutions



"...demand is out there
for IP and bandwidth, so
we are on a 'build and
fill' strategy."

– Mike Armstrong, CEO,
AT&T

Support from the Leader

AT&T's state-of-the-art architecture,
superior network technology and robust
infrastructure make us the industry leader
in optical services – now and with a clear
plan for an optical switched network as
technologies evolve in the future. As you
devote your resources to developing new
business opportunities, you can rely on
AT&T for world-class support.

With more fiber miles, more built-in
redundancy features and a comprehen-
sive Service Level Agreement, the AT&T
Private Line Service Assurance Warranty,

we can carry your next generation
communications where they need
to go – reliably, efficiently and at
unbelievable speeds.

*Availability of speeds, features and options may vary
depending on location.

**For more information,
contact your AT&T Account
Representative or AT&T
Alliance Program Agent.
Call 1-800-288-3199
or visit our web site at
www.att.com/lpservices.**

SBC Illinois Ex. 1.1 (Sparks Rebuttal Transport)
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RCN
THE LIVE WIRE

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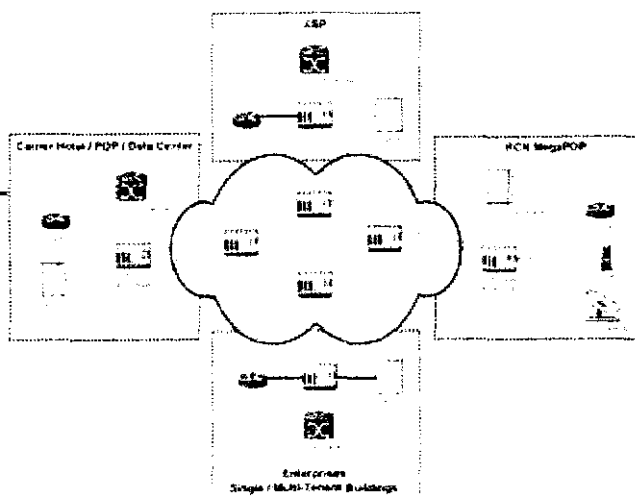
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Dark Fiber | Voice

RCN SONET Transport

RCN provides companies with the opportunity to maximize their market penetration by providing extensive fiber reach within seven major Metropolitan Area Networks (MAN). With our state-of-the-art Megaband Network, RCN is able to provide the highest quality, most reliable end-to-end transport solutions.

RCN Metro SONET Network



Advantages:

Flexible- A flexible architecture capable of accommodating future applications with a variety of transmission rates. RCN provides a variety of SONET transport services including DS-3, OC-3, OC-12, and OC-48 to meet your specific needs, which may range from basic telephony to complex data intensive applications.

Reliable- RCN SONET Transport service delivers dependable, bi-directional, continuous service over an advanced self-healing network, providing increased network reliability.

Cost Effective- Reduces equipment requirements and provides generic standards, which enable products from different vendors to be connected.

[SONET Transport Technical Specs](#)

SBC Illinois Ex. 1.1 (Sparks Rebuttal Transport)

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PRODUCTS & SERVICES

Business Shared Web Hosting | Business Television | Colocation
 Ethernet Transport | Managed Dedicated Server | SONET Transport
 Dark Fiber | Voice

RCN SONET Transport - Technical Specifications**Speeds:**

- DS-3
- OC-3
- OC-12
- OC-48

SONET Transport Rates

Optical Signal OC-n	Synchronous Transport Signal STS-n	SONET Transport Rates	DS-3 Channels	DS-1 Channels
OC-3	STS-3	155 Mbps	3	84
OC-12	STS-12	622 Mbps	12	336
OC-48	STS-48	2.5 Mbps	48	1344

Discount Plans:

1, 3, and 5 year contract terms are available.

Performance:

RCN delivers service backed by a Service Level Agreement that covers the critical aspects of your applications. Our Network Operations Center (NOC) and advanced networking technologies enables us to provide these agreements confidently. The RCN NOC is available 24 hours a day, 7 days a week to perform network provisioning, monitoring, and management.

Service Level Agreement

Bit Error Rate (BER)	<1X10 ⁻⁹
Error Free Seconds	>99.99%
Circuit Availability	99.99%
Mean Time To Repair	<6 Hours
On Site Response - 24x7x365	<4 Hours
Technical Response	<15 Minutes

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If your company is looking for a cost-effective solution to expand your network or to create additional route diversity for high-bandwidth applications, RCN is the place to start. RCN offers its dark fiber and conduit in seven major metropolitan areas under 5, 10, and 20 year Indefeasible Rights of Use (IRU).

RCN has constructed networks in metropolitan areas that can be extended directly to businesses and buildings requiring fiber connectivity. The metro networks connect the RCN data centers to key traffic aggregation points such as central offices and carrier hotels.

With customer leased fiber networks, your company controls the fiber and can choose the service provider for services such as telephony, CATV, and Internet. In addition, the RCN Network supports the latest advanced networking technologies, including: SONET, ATM, and Ethernet devices at either end of the fiber connection.

Leasing fiber provides you with tangible benefits:

- Reducing local loop telecom costs
- Provides the flexibility, security, and reliability you need to manage your own private optical network
- Ability to deploy redundant paths to multiple carriers
- Carrier hotels feature meet-me-rooms where fiber cables can be cross-connected to any service provider within the building

The RCN Megaband Network is a state-of-the-art broadband fiber-optic platform, which expands over 9,000 route miles. This network is built with the latest advanced networking technologies for superior performance. The fully redundant Metropolitan Area Networks employ self-healing SONET ring backbone architecture and localized nodes, ensuring that bandwidth and connectivity are never compromised.

RCN is committed to supporting the success of our customers with affordability, high quality service, and reliability.

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